

# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.ispic.gov

APPLICATION NO.	FILING DAT	E FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.			
10/079,938 02/19/2002		Jonathan S. Lindsey	407T-301500US	6524			
22798	7590 04/2	5/2003					
QUINE IN	ΓELLECTUAL Ι	PROPERTY LAW GROUP, P.C.	EXAMINER				
P O BOX 45 ALAMEDA	-		LE, THO	LE, THONG QUOC			
			ART UNIT	PAPER NUMBER			
			2818				
		•	DATE MAILED: 04/25/200	DATE MAILED: 04/25/2003			

Please find below and/or attached an Office communication concerning this application or proceeding.

				Applicati ı	n No.	Appli ant(s)	1		
0.0	0461-	-		10/079,938		LINDSEY ET AL.			
		Action Summary	Γ	Examiner		Art Unit			
				Thong Q. L		2818			
TI Period for R		LING DATE of this communica	tion appe	ars on the	cover shet with the	correspondence ad	ddress		
THE MAI  - Extensions after SIX (  - If the peric  - If NO peric  - Failure to  - Any reply to	LING [ s of time   6) MONT d for repl d for rep reply with received I	O STATUTORY PERIOD FOR DATE OF THIS COMMUNICATION of 3 HS from the mailing date of this community specified above is less than thirty (30) day is specified above, the maximum statution the set or extended period for reply will by the Office later than three months after adjustment. See 37 CFR 1.704(b).	ATION. 37 CFR 1.136 ication. lays, a reply wory period will l, by statute, c	i(a). In no even within the statut I apply and will cause the applic	t, however, may a reply be ti ory minimum of thirty (30) da expire SIX (6) MONTHS fron ation to become ABANDONI	mely filed ys will be considered time n the mailing date of this o ED (35 U.S.C. § 133).	ty. ommunication.		
1) 🗌 R	espons	sive to communication(s) filed	on	_·					
2a)	is acti	on is <b>FINAL</b> . 2b	)⊠ This	action is r	on-final.				
	osed ir	is application is in condition for accordance with the practice ims					ne merits is		
- 4)⊠ Cla	im(s)	1-102 is/are pending in the a	pplication	).					
4a)	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)⊠ Cla	im(s) ]	71-102 is/are allowed.							
6)⊠ Cla	6)⊠ Claim(s) <u>1-3,40-42 and 44-70</u> is/are rejected.								
7)⊠ Cla	im(s) <u>4</u>	4-39 and 43 is/are objected to	<b>)</b> .				•		
•		are subject to restriction	n and/or	election re	quirement.				
Application	•								
•—	•	ication is objected to by the E							
		ng(s) filed on is/are: a)							
•	•	t may not request that any object							
,	• •	sed drawing correction filed o				oved by the Examir	ner.		
	• •	ed, corrected drawings are requi or declaration is objected to by			ce action.				
,		·	y tile La	miner.					
-		J.S.C. §§ 119 and 120	r foroian	nrinritu una	lor 25     5 C	n) (d) or (f)			
•		dgment is made of a claim fo	i ioreign į	priority unc	lei 35 U.S.C. 9 119(	a)-(u) or (i).			
	-	☐ Some * c)☐ None of:	oumonts.	hava haan	raceived	•			
1		rtified copies of the priority do				ion No			
2.[		rtified copies of the priority do					Stock		
3.[_ * See		pies of the certified copies of application from the Internati ached detailed Office action f	ional Bure	eau (PCT F	Rule 17.2(a)).		Stage / ;		
14)∐ Ackr	owled	gment is made of a claim for	domestic	priority un	der 35 U.S.C. § 119	(e) (to a provisiona	l application).		
, —		ranslation of the foreign langu gment is made of a claim for							
Attachment(s)									
2) Notice of	Draftspe	ces Cited (PTO-892) rson's Patent Drawing Review (PTO sure Statement(s) (PTO-1449) Pape				y (PTO-413) Paper No Patent Application (PT			
C Dotant and Tradem					-				

Application/Control Number: 10/079,938 Page 2

Art Unit: 2818

#### **DETAILED ACTION**

1. Claims 1-102 are presented for examination.

#### Specification

2. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

### Claim Objections

3. Regarding claim 4, line 2, should be changed "triple decker sandwhich" to –triple-decker sandwich —as described in claim 1.

#### **Double Patenting**

4. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Application/Control Number: 10/079,938

Art Unit: 2818

5. Claims 1-3, 40-42, 44-61, 62-70 are rejected under the judicially created doctrine of double patenting over claims 1-24, 35-43 of U. S. Patent No. U.S. 6,212,093 since the claims, if allowed, would improperly extend the "right to exclude" already granted in the patent.

The subject matter claimed in the instant application is fully disclosed in the patent and is covered by the patent since the patent and the application are claiming common subject matter, as follows:

Regarding claims 1-3, 40-42, 44-61, Lindsey (U.S. Patent No. 6,212,093) disclose an apparatus for storing data comprising: a fixed electrode electrically coupled to a storage medium having a plurality of different and distinguishable oxidation states wherein data is stored in the oxidation states by addition or withdrawal of one or more electrons from the storage medium via the electrically coupled electrode, and the storing medium comprising a storage molecule storage molecule (Claim 1) as claim 1 disclose, and the storage molecule comprises a heteroleptic sandwich coordination compound (Claim 2) as claim 2 discloses, and a homoleptic sandwich coordination compound (Claim 3) as claim 3 disclose, and the storage medium has a memory storage density of at least about 10 gigabits per cm2 in sheet-like device (Claim 4) as claim 40 disclose, and the storage medium is covalently linked to the electrode (Claim 5) as claim 41 disclose, and the storage molecule is covalently linked to the electrode by thiol linker (Claim 6) as claim 42 disclose, and claims 7-24 in U.S. 6,451,942 disclose claims 44-61 in present application.

Application/Control Number: 10/079,938

Art Unit: 2818

Regarding claims 62-70, the claims 35-43 in U.S. 6, 451,942 disclose a method as claims 62-70 in present application.

Furthermore, there is no apparent reason why applicant was prevented from presenting claims corresponding to those of the instant application during prosecution of the application which matured into a patent. See *In re Schneller*, 397 F.2d 350, 158 USPQ 210 (CCPA 1968). See also MPEP § 804.

## Allowable Subject Matter

- 6. Claims 4-39 would be allowable if rewritten or amended to overcome the Claim Objections, set forth in this Office action.
- 7. Claims 4-39, 43 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 4-39, 43 include allowable subject matter since the prior art made of record and considered pertinent to the applicant's disclosure does not teach or suggest the claimed limitations. Lindsey (U.S. Patent No. 6,212,093), and others, does not teach the claimed invention having a storage molecule comprises a triple-decker sandwich coordination compound having formula selected from the group disclose in claims.

8. Claims 71-102 are allowed.

Claims 71-102 include allowable subject matter since the prior art made of record and considered pertinent to the applicant's disclosure does not teach or suggest the claimed limitations. Lindsey (U.S. Patent No. 6,212,093), and others, does not teach the



Art Unit: 2818

claimed invention having a method of making a triple-decker sandwich as claims 71-75 disclose, and an information storage medium comprising a storage molecule having at least eight different and distinguishable non-zero oxidation states as claims 76-102 disclose.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thong Q. Le whose telephone number is 703-306-9123. The examiner can normally be reached on 8:00am-5:00pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David C. Nelms can be reached on 703-308-4910. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9318 for regular communications and 703-872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-306-3329.

Thong Q. Le Examiner

Ulroyh

Art Unit 2818